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SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered) READ INSTRUCTIONS REPORT DOCUMENTATION PAGE BEFORE COMPLETING FORM 2. GOVT ACCESSION NO. 3. RECIPIENT'S CATALOG NUMBER 1. REPORT NUMBER DR 1017 5. TYPE OF REPORT & PERIOD COVERED TITLE (19304A GSRS, Number Missile # 1138 Round No. 6. PERFORMING ORG. REPORT NUMBER 8. CONTRACT OR GRANT NUMBER(+) DA Task |1T6657 2D126-02 White Sands Meteorological Team 9. PERFORMING ORGANIZATION NAME AND ADDRESS 9 Meteorological data 11. CONTROLLING OFFICE NAME AND ADDRESS May 379 US Army Electronics Research & Development Comd Atmospheric Sciences Laboratory White Sands Missile Range New Mexico 15. SECURITY CLASS. (of this re US Army Electronics Research & Development Comd UNCLASSIFIED 15a. DECLASSIFICATION/DOWNGRADING 16. DISTRIBUTION STATEMENT (of this Report) Approved for publicarelease; distribution unlimited. 18. SUPPLEMENTARY NOTES 19. KEY WORDS (Continue on reverse side if necessary and identify by block number) 1. Ballistics 2. Meteorology 3. Wind 20. ABSTRACT (Continue on reverse side if necessary and identify by block mamber) Meteorological data gathered for the launching of 19304A GSRS, Missile No. 1138, Round No. V-30, are presented in tabular form.

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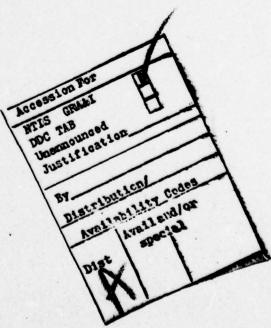
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CONTENTS

			PAGE
INTRO	DUC	TION	1
DISC	USSI	ON	1
MAP -			2
TABLE	ES		
	1.	Surface Observations Taken at 0900 MDT at LC-33	3
	2.	Anemometer-Measured Wind Speed and Direction, LC-33 Fixed Pole, Taken at 0900 MDT	4
	3.	Anemometer-Measured Wind Speed and Direction, Tower Levels 1, 2, 3, and 4, Taken at 0900 MDT	5
	4.	Pilot-Balloon-Measured Wind Data at 0900 MDT	6-7
	5.	SMR Significant Level Data at 0800 MST	8-9
	6.	SMR Upper Air Data at 0800 MST	10-14
	7.	MRN Significant Levels at 0800 MST	15
	8.	SMR Mandatory Levels at 0800 MST	16
	9.	SMR MRN Mandatory Levels at 0800 MST	17



INTRODUCTION

19304A GSRS , Missile Number 1138 , Round Number V-30 , was launched from LC-33. White Sands Missile Range (WSMR), New Mexico, at 0900 MDT, 21 May 1979 . The scheduled launch time was 0900 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

- a. Surface
- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m^3) , wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.
 - b. Upper Air
- (1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

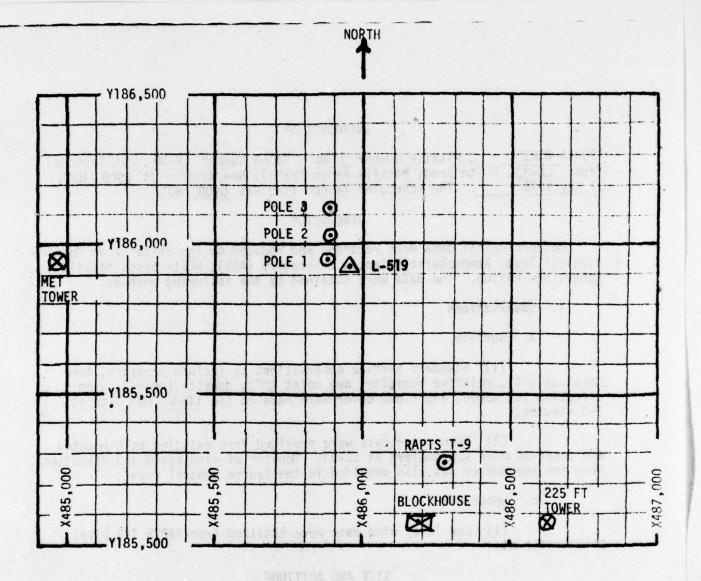
SITE AND ALTITUDE

LC-33 1020 meters (30-meter increments) 0900 MDT

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 98,500 feet in 500-feet increments.

SITE AND TIME

SMR 0800 MST



- MET TOWER 4 Bendix Model T-120 Anemometers at 12 ft, 62 ft, 102 ft and 202 ft with E/A recorders.
- 2. POLE ANEMOMETER Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 38.7 ft
 - (b) Pole #2 53.0 ft
 - (c) Pole #3 83.6 ft
- 3. 225 FT WIND TOWER 5 Bendix Model T-120 Anemometers at 35 ft, 88 ft, 128 ft, 168 ft and 200 ft with 5 X-Y visual indicators in Blockhouse.
- 4. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar

TABLE 1. SURFACE OBSERVATIONS TAKEN AT 0900 MDT, 21 MAY 1979 AT LC-33, 19304A GSRS, MISSILE NO. 1138, ROUND NO. V-30.

ELEVATION	3977.30	FT/MSL	
PRESSURE	875.7	MBS	
TEMPERATURE	13.7	•c	
RELATIVE HUMIDITY	53 054	x	
DEW POINT	4.3	•c	
DENSITY	1058	GM/M ³	
WIND SPEED	Calm	. MPH	
WIND DIRECTION	Calm	DEGREES	
CLOUD COVER	6 on 11	Cu	

TABLE 2. LC-33 FIXED POLE ANEMOMETER-MEASURED WINDS

	POLE #1		000 0	POLE #2			POLE #3	
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR	SPEED MPH	T-TIME SEC	DIR DEG	SPEEL
-30	000	00	-30	167	06	-30	000	00
-20	000	00	-20	147	06	-20	000	00
-10	000	00	-10	150	06	-10	156	01
0.0	000	00	0.0	153	05	0.0	156	01
+10	000	00	+10	155	05	+10	000	00

Type from	19304A LC-33	GSRS on	_, Missi 21 May	le No. 1138 1979 at	, Round No.	V-30 launched
	POLE #1	= X485	,874.29	Y185,958.90	H4018.74	38.7 ft. AGL
	POLE #2	= X485	,874.93	Y186,012.00	H4033.57	53.0 ft. AGL
	POLE #3	= X485	,877.29	Y186,116.06	H4063.92	83.6 ft. AGL

NOTE: Wind directions are referenced to the firing azimuth or true north <u>true north</u>.

TABLE 3. LC-33 METEOROLOGICAL TOWER ANEMOMETER-MEASURED WINDS (202 FT. TOWER)

2017044 213945	LEVEL #1 12 ft.		LEVEL #2 62 ft.		
T-TIME SEC	DIR	SPEED MPH	T-TIME SEC	DIR	SPEED
-30	an't	03	-30	096	02
-20	gran't	02	-20	084	03
-10	000	00	-10	043	03
0.0	000	00	0.0	042	02
+10	000	00	+10	048	01
383	LEVEL #3 102 ft.		LEVEL #4 202 ft.		
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR	SPEED MPH
-30	000	00	-30	088	02
-20	000	00	-20	088	02
-10	000	00	-10	105	02
0.0	000	00	0.0	085	02
+10	000	00	+10	078	03

WTSM Coordinates: X484,982.64 Y185,957.73 H3983.00 (base)

Type 19304A GSRS , Missile No. 1138 , Round No. V-30 launched from LC-33 on 21 May 1979 at 0900 MDT .

NOTE: Wind directions are referenced to the firing azimuth or true north true north.

TABLE 4. PILOT-BALLOON-MEASURED WIND DATA (30-METER INCREMENTS)

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
SFC	000	00
30	000	00
60	000	00
90	079	1.5
120	112	2.5
150	117	3.5
180	721	4.0
210	138	5.5
240	154	6.5
270	151	7.0
300	148	7.0
330	155	5.0
360	162	3.0

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
390	216	2.5
420	270	2.0
450	286	2.5
480	302	3.0
510	277	4.0
540	251	5.0
570	267	4.0
600	282	3.0
630	292	2.5
660	301	2.0
690	325	4.0
720	348	6.0
750	333	6.0

Release Point Coordinates (WSTM):	X486,037.24	Y486,037.24	H3977.30
Released from LC-33 on 21 May	1979 at	0900 MDT .	
Type 19304A GSRS , Missile No. from LC-33 on 21 May 1979	1138 , at 0900 MOT	Round No. V-30	launched
NOTE: Wind directions are reference or true north true north.	ced to the fi	iring azimuth	

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
780	318	6.0
810	314	5.5
840	309	5.0
870	316	5.5
900	323	6.0
930	312	6.0
960	300	6.0
990	302	6.5
1020	304	7.0
1050		
1080		
1110		
1140		
1170		19 7
1200		
1230	00000000	0.00
1260		2,19.2
1290		
1320	2284867	
1350		
1380		
1410		

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
1440		
1470		
1500		
1530		
1560		
1590		
1620		
1650		H 5 5 6
1680		
1710		
1740		
1770		
1800		
1830	one his or a	
1860		
1890		
1920		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1950	A TOTAL OF THE STATE OF THE STA	
1980		
2010		
2040		
2070		

MSL	0800 HRS MST
13	MS
FE	4RS
30	00
197	980
JOE	
TI	ė
A	21 MAY 79 ASCENSION NO. 13
Z	Y
ATI	CEN
ST	21 AS

DATA	
SIGNIFICANT LEVEL	

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

REL.HUM. PERCENT	45.0 52.0 53.0			45.0 52.0 25.0			\$85 \$50		
RATURE DEWPOINT CENTIGRADE	4-1-1 1-1-1 1-1-1	- 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	110.	1034				F gent	
TEMPERAT AIR DEW DEGREES CEN		2.01	280	MMMM	138.4	0.4000	146.7 148.0 153.4 157.2 157.2	450000	-56.8 -52.8 -45.3
GEOMETRIC ALTITUDE MSL FEET	3997.3 4513.5 4898.6 5457.6	8362.9 9026.6 0122.8						20000000000000000000000000000000000000	
PRESSURE MILLIBARS	878.2 862.0 850.0	2090	3000	0 4 0	0000	00000	200.0 3 177.8 4 169.6 4 150.0 4 136.0 4	0000000	900

STATION ALTITUDE 3997.30 FEET MSL 21 MAY 79 0800 HRS MST ASCENSION NO. 132

SIGNIFICANT LEVEL DATA 1410060132 S M R

TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET

-41.8

94338.6

15.0 12.3

REL.HUM. PERCENT

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

STATION ALTITUDE 3997.30 FEET MSL 21 MAY 79 0800 HRS MST ASCENSION NO. 132

UPPER AIR DATA 1410060132 S M R

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

INDEX OF REFRACTION	1.000272	1.000266	1.000262	1.000258	1.000254	1.000249	1.000245	1.000241	1.000236	1.000233	1.000230	1.000225	1.000219	1.000215	1.000211	1.000208	1.000204		1.000197	1.000195	1.000169	1.000183	1.000178	1.000175	1.000172	1.000170	1.000167	1.000164	1.000161	1.000158	1.000155	1.000152	1.000150	1.000147	1.000144	1.900142	1.000139	₫.000137	M)
SPEED KNOTS	••							5.6	7.5	8.7	9.5	9.1	7.7	6.7	6.2	6.1	6.3	9.9	7.3	8.0	8.4	8.3	7.4	6.9	7.1	2.6	8.7	9.6	9.6	9.6	9.3	9.5	9.5	9.5	10.1	11.2	3	14.9	0
WIND DATA DIRECTION S DEGREES(TN) K	•							321.9	319.6	318.8	318.5	318.7	319.5	324.8	335.4	346.3	356.2	8.7	25.5	31.0	35.0	38.3	39.1	0.04	40.5	2.04	39.9	0.04	45.3	44.1	43.5	42.1	38.2	37.0	6.04	42.0	39.5		30.3
SPEED OF SOUND KNOTS	663.6	659.3	657.3	656.1	656.1	9.459	653.1	651.6	650.1	648.7	9.749	646.3	645.0	643.5	642.0	640.5	638.9	637.4	632.9	634.5	633.4	632.3		656.6	628.6	657.3	655.9	624.6	623.3	622.0	620.5	619.0	617.6	610.1	614.6	513,1	11	610.1	608.6
DENSITY S GM/CUBIC METER	1054.3	1049.0	1036.4	1021.2	1002.7	986.8	975.1	961.7	948.4	935.0	920.7	907.2	893.8	880.9	868.2	855.7	843.4	831.3	819.4	807.2	794.1	781.2	7.897	756.5		732.9	721.4	710.0	6.869	688.0	677.0	666.2	655.5	645.0	634.7	:	14.	6.409	595.3
REL.HUM. PERCENT	4: 4: 0 0 : 0 0 : 0	47.9	52.2	53.0	53.7	55.2	56.8	58.3	6.65	65.9	9.69	0.79	63.8	4.49	66.2	68.1	20.0	71.8	73.7	85.5	71.5	57.5	48.6	50.4	52.2	54.1	52.9	57.7	29.6	4.19	6.09	59.3	57.7	56.2	24.6	53.0	51.4	8-64	48.2
TEMPERATURE R DEWPOINT EES CENTIGRADE	4 4	1.7	1.3	9.	.7	7:-	6		-2.5	-3.0	-2.5	0.4-	-5.7	-6.7	-7.5	1-8-	-	-10.5	-11.1	-10.4	-13.4	-16.7	-19.5	-50.1	-20.7	-21.3	-22.0	-55.6	-23.3	-24.0	-25.2	-56.6			-30.9	-32.3	-33.7	-35.1	-36.6
TEMF AIR DEGREES	16.0	12.4	10.7	4.6	9.6	8.4	7.1	5.9	4.6	3.4	2.5	1.4	÷.	6	-2-1	-3.4	9.4-	-5.9	-7.2	-8-4	-9.5	-10.0	-10.8	-11.9	-13.0	-14.1	-15.2	-16.3	-17.4	-18.4	-19.6	-20.8	-22.0	-23.2	-24.4	-25.5	-26.7	-27.9	-29.1
PRESSURE MILLIBARS	878.2	862.4	846.9	831.5	816.4	801.4	786.7	772.3	758-1	744.2	730.3	710.7	703.3	6.689	676.8	663.9	651.2	638.8	9.929	614.5	9.709	9.065	579.3	267.7	256.5	545.4	234.6	523.9	513.5	503.3	493.1	485.8		463.1	453.5	444.1		N	417.1
GEOMETRIC ALTITUDE MSL FEET	3997.3	4500.0	200000	5500.0	0.0009	0.0059	2000.0	7500.0	80000.0	8500.0	0.0006	9500.0	1000000		11000.0	11500.0	12000-0	12500.0	13000.0	13500.0	14000.0	14500.0	15000.0	15500.0	16000.0	16500.0	17000.0	17500.0	18000.0	18500.0	19000.0	19500.0	2000000	\$0500.0	21000.0	21500.0		42500.0	23000.0

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

UPPER AIR DATA 1410060132 SMR

GEODETIC COORDINATES 32.46034 LAT DEG 106.42307 LON DEG 1.000066 1.000065 1.000083 1.000132 1.000123 1.000102 1.000098 1.000079 1.000107 1.000092 .000118 9200000 ..000072 1.000125 .000088 .00000 6900000 .000128 .000116 .000114 .000111 .000109 ***60000-1** 1.000001 +400000 .00000 REFRACTION INDEX DIRECTION SPEED DEGREES(TN) KNOTS 250 2333333 233333 233333 23333 23333 23333 23333 23333 23333 23333 23333 23333 23333 23333 23333 23333 23333 23333 23333 23333 233 2333 2333 2333 2333 2333 2333 2333 2333 2333 2333 2333 2333 233 2333 2333 2333 2333 2333 2333 2333 2333 2333 2333 2333 2333 233 2333 2333 2333 2333 2333 2333 2333 2333 2333 2333 2333 2333 233 2333 2333 2333 2333 2333 2333 2333 2333 2333 2333 2333 2333 233 2333 2333 2333 2333 2333 2333 2333 2333 2333 2333 2333 2333 233 2333 2333 2333 2333 2333 2333 2333 2333 2333 2333 2333 2333 233 SPEED OF SOUND KNOTS 6607.2 6607.2 66017.2 586.2 585.9 585.0 585.0 584.0 584.1 DENSITY GM/CUBIC METER REL.HUM. TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE 3997.30 FEET MSL 0800 HRS MST -447.50 -47.74 -47.74 MILLIBARS PRESSURE 2566.0 ASCENSION NO. 132 STATION ALTITUDE GEOMETRIC ALTITUDE MSL FEET 23500.0 25500.0 25500.0 25500.0 25500.0 25500.0 25500.0 25500.0 35500.0 35500.0 35500.0 35500.0 35500.0 35500.0 35500.0 35500.0 35500.0 41000.0

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UPPER AIR DATA 1410060132 S M R

STATION ALIITUDE 3997.30 FEET MSL 21 MAY 79 0800 HRS MST

ASCENSION NO. 132

MILLIBARS PRESSURE

GEUMETRIC ALTITUDE MSL FEET

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

1.000058 1.000057 1.000056 1.000055 1.000039 1.000036 9#00000-1 1.000029 1.000054 1.000048 1.000031 .000050 6400000 ++00000 .000043 .000042 .0000040 .000033 .000032 .00000 .000041 .000034 .0000030 .00000 REFRACTION INDEX SPEED WIND DATA DIRECTION SPI DEGREES(TN) KN 2882.5 2882.5 2883.8 28 SPEED OF SOUND KNOTS 582.3 582.6 582.6 582.6 582.6 582.6 582.6 582.6 582.6 582.6 582.6 582.6 582.6 DENSITY S GM/CUBIC METER REL.HUM. TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE

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-60.0 -59.9 -60.0 -60.0 -60.0

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| DETIC COORDINATES
32-48034 LAT DEG
106-42307 LON DEG | INUEX
OF
REFRACTION | 1.000024 | 0000 | 1.000022 | 1.000022 | 1.000021 | 1.000020 | 1.000020 | | 1.000019 | 1.000018 | 1.000018 | 1100001 | 1.00001 | 10000 | 1.00001 | | 1.000015 | 0000 | 1.000014 | 10000 | 1.000014 | 1.000013 | 1.000013 | 1.000013 | 1.000012 | 10000 | 7100001 | 1.000011 | 1.00001 | 1.00001 | 1.000010 | 1.000010 | .00001 | .00001 | 1.000009 | .00000 | .00000 | 1.0000009 |
|--|---|----------|---------|----------|----------|----------|----------|----------|---------|----------|----------|----------|---------|---------|---------|---------|---------|----------|---------|----------|---------|----------|----------|----------|----------|----------|-------|---------|----------|---------|---------|----------|----------|---------|--------|----------|--------|--------|-----------|
| 6E0DETIC
32.4
106.4 | SPEED
KNOTS | 6.5 | 6.5 | 9.9 | 4.9 | 5.9 | 5.7 | 3.5 | 9. | 2.5 | 9.0 | 5.3 | | | *** | 1.9 | 1.9 | 6.1 | 7.1 | 8.2 | 9.4 | 11.1 | 13.0 | 15.0 | • | 17.5 | | 9.67 | 20.02 | 20.0 | 0 | 19.5 | 8 | 6 | 19.7 | 0 | 1: | 21.7 | 22.4 |
| | WIND DATA
DIRECTION SF
DEGREES(TN) KR | 150.8 | 168.0 | 184.2 | 195.0 | 206.2 | 218.7 | 210.6 | 169.1 | 51.5 | 25.3 | 955.8 | 0.00 | 55.7 | 57.5 | 58.6 | 29.64 | 8.09 | 61.3 | 61.6 | 61.9 | 62.0 | 62.1 | 62.1 | 67.3 | 75.5 | 0.20 | 0.50 | 98.0 | 10101 | 98.7 | 96.5 | 0.46 | 97.5 | 100.9 | 104.1 | 104.9 | 105.2 | 105.5 |
| SS | SPEED OF SOUND KNOTS | 562.8 | 564.2 | 565.7 | 567.2 | 568.7 | 570.2 | 571.5 | 571.2 | 570.8 | 570.5 | 570.5 | 271.5 | 572.1 | 273. | 573.7 | 574.0 | 574.3 | 574.6 | 574.8 | 575.1 | 575.4 | 575.7 | 576.0 | 576.3 | 576.5 | 570.0 | 27.10 | 5.77.7 | 577.9 | 578.2 | | | 579.8 | 560.4 | 3. | 581.5 | 582.1 | 285.6 |
| UPPER AIR DATA
1410060132
S M R | DENSITY
GM/CUBIC
METER | 105.6 | N | 99.5 | 9.96 | 93.8 | 91.0 | 88.5 | 86.5 | | 95.0 | 90.08 | 100 | 7.0.5 | 72.5 | 70.8 | 69.1 | 67.4 | 65.7 | 64.1 | 62.6 | 61.1 | 29.6 | 58.1 | 56.7 | 5.00 | 24.0 | 51.4 | 200 | 48.0 | 47.7 | 9.94 | 45.4 | 44.3 | 43.2 | | 41.1 | 40.1 | 39.1 |
| , | REL.HUM.
PERCENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ET MSL
MST | TEMPERATURE
R DEWPOINT
EES CENTIGRADE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 97.30 FEET M
0800 HRS MST | AIR
DEGREES | 1.49- | -63.4 | -62.3 | -61.2 | 0.09- | -58.9 | -57.9 | -58.2 | -58.5 | 1000 | 1.00 | 0.00 | 7.75 | -56.5 | -56.3 | -56.1 | -55.9 | -55.6 | -55.4 | -52.5 | -55.0 | -54.8 | -54.6 | 104. | 1040 | 4.53 | מ מ | 36 | M | -52.9 | -52.5 | -52.1 | -51.6 | -51.2 | -50.8 | -50.4 | | -49.5 |
| UDE 39 | PRESSURE
MILLIBAKS | 63.3 | 61.7 | 60.2 | 58.8 | 57.4 | 56.0 | 24.0 | 53.3 | 52.1 | 0.00 | 0.65 | | 20.74 | 45.1 | 44.1 | 43.0 | 42.0 | 41.0 | 40.1 | 39.1 | 38.2 | 37.3 | 36.5 | 33.0 | 0.40 | 33.5 | 10.01 | 31.6 | 30.9 | 30.2 | 29.5 | 28.8 | | 27.5 | 24.9 | | 25.7 | |
| STATION ALTIT
21 MAY 79
ASCENSION NO. | GEOMETRIC
ALTITUDE
MSL FEET | 03500.0 | 0.00049 | 64500.0 | 0.00050 | 65500.0 | 0.0000 | 0.00000 | 0.000.9 | 0.00079 | 0.0000 | 0.0000 | 0.0000 | | 70500-0 | | 71500.0 | 72000.0 | 72500.0 | 73000.0 | 73500.0 | 74000.0 | 74500.0 | 0.0000 | 0.00007 | 76500 | | | 78000.0 | | 79000-0 | | 8000000 | 80500.0 | | | : | 520 | 83000.0 |

| | 21 MAY 79 DANG HRS MST |
|--|------------------------|
|--|------------------------|

UPPER AIR DATA 1410060132 S M R

GEODETIC COOKDINATES 32.48034 LAT DEG 106.42307 LON DEG

| TEMPERATURE RELHUM, DENSITY AIR DEWPOINT PERCENT GM/CUBIC MILLIBARS DEGREES CENTIGRADE METER GM/CUBIC CONTIGRADE METER METER CONTIGRADE METER METER CONTIGRADE METER CONTIGRACE CENTIGRADE METER METER CONTIGRACE CENTIGRADE CONTIGRACE CONTIGRACE CONTIGRATION C | | | | | | | | | |
|--|----|----------|---|-----------------------|------------------------------|----------------------------|--------------|----------------|---------------------------|
| 84500.0 24.0 -48.6 6 35.1 25.2 6 25.2 147.6 25.0 148.6 6 25.0 148.6 6 25.0 147.6 25.0 147.6 25.0 146.5 25.0 146.5 25.0 146.5 25.0 146.5 25.0 146.5 25.0 146.5 25.0 146.5 25.0 146.5 25.0 146.5 25.0 146.5 25.0 146.5 25.0 146.5 25.0 146.5 25.0 146.5 25.0 146.7 25.0 146.5 25.0 146.5 25.0 146.5 25.0 146.5 25.0 146.5 25.0 146.5 25.0 146.5 25.0 146.5 25.0 146.5 26.0 14 | - | AI | • | REL . HUM.
PERCENT | DENSITY
GM/CUBIC
METER | SPEED OF
SOUND
KNOTS | DIRECTION SI | SPEED
KNOTS | INDEX
OF
REFRACTION |
| 8450000 23.4 -48.6 855000 23.4 -48.2 855000 22.4 -47.8 855000 22.4 -47.8 855000 22.4 -47.8 855000 22.4 -47.8 855000 22.4 -47.8 855000 22.4 -47.8 855000 22.4 -47.8 33.7 32.8 855000 22.4 -45.7 8 45.5 3 85.4 855000 19.9 -45.7 8 44.2 855000 11.4 -44. | 24 | | | | 38-1 | | 104.0 | 22.2 | 1.000008 |
| 84500.0 23.4 -48.2 35.4 35.4 86.5 86.00.0 22.4 -46.5 86.00.0 22.4 -46.5 86.00.0 22.4 -46.5 86.00.0 21.4 -46.5 86.00.0 21.4 -46.5 86.00.0 21.4 -46.5 86.00.0 21.4 -46.5 86.00.0 20.4 -46.5 86.00.0 20.4 -46.5 86.00.0 20.4 -46.5 86.00.0 20.4 -46.5 86.00.0 20.4 -46.5 86.00.0 20.4 -46.5 86.00.0 20.4 -46.5 86.00.0 20.4 -46.5 86.00.0 20.4 -46.5 86.00.0 20.4 -46.5 86.00.0 20.5 86.0 20.5 86.0 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20 | 24 | | | | 37.2 | | 94.3 | 20.5 | 1.000008 |
| 85000-0
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| 86500.0 22.4 -47.4 86500.0 21.9 -46.5 86500.0 21.9 -46.5 86500.0 21.9 -46.5 86500.0 21.9 -46.5 86500.0 21.9 -46.5 86500.0 20.4 -45.7 33.7 89500.0 19.9 -45.7 33.7 89500.0 19.1 -44.7 43.6 86500.0 17.4 -43.6 89500.0 17.4 -43.6 89500.0 17.4 -43.6 89500.0 17.4 -43.6 89500.0 17.4 -43.6 89500.0 17.4 -43.6 89500.0 17.4 -43.6 89500.0 17.4 -42.8 89500.0 17.4 -42.8 89500.0 17.4 -42.8 89500.0 17.5 -42.9 89500.0 17.6 -41.9 89500.0 17.6 -42. | | -47 | | | 35.4 | 4 | 83.2 | 17.0 | 1.000008 |
| 865000 21.9 46.9 46.9 46.5 46.5 46.5 46.5 46.5 46.5 46.5 46.5 | | • | | | 34.5 | | 78.2 | 15.4 | 1.000008 |
| 86500.0 21.4 46.5 46.1 32.8 46.1 32.0 46.1 46.1 32.0 4 46.1 32.0 4 46.1 32.0 4 46.1 32.0 4 46.1 32.0 4 46.1 32.0 4 46.1 32.0 4 46.1 32.0 4 46.1 32.0 19.9 46.2 1 30.5 19.0 19.9 46.2 1 30.5 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 | | • | | | 33.7 | 585.9 | 72.8 | 13.9 | 1.000007 |
| #700000 20.9 -46.1 32.0 46.0 45.0 46.0 19.9 -45.7 31.2 680000 19.9 -45.3 30.5 895000 19.9 -45.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 | | | | | 32.8 | | 66.2 | 12.5 | 1.000007 |
| 685000 19.9 -45.7 30.5 684000 19.9 -45.7 30.5 685000 19.9 -45.7 30.5 685000 19.9 -45.0 59.0 59.0 59.0 59.0 59.0 59.0 59.0 5 | | | | | 32.0 | | 61.1 | 11.6 | 1.000007 |
| 68000.0 19.9 -45.3 30.5 86500.0 19.5 -45.0 89500.0 19.1 -44.7 89500.0 19.1 -44.7 89500.0 19.1 -44.7 89500.0 18.2 -44.4 89500.0 17.8 -44.4 89500.0 17.8 -44.4 89500.0 17.4 -43.6 89500.0 17.4 -43.6 89500.0 16.3 -42.8 895500.0 15.9 -42.8 895500.0 15.9 -42.9 895500.0 14.6 -41.9 895500.0 14.6 -41.9 895500.0 14.6 -41.9 895500.0 13.9 -42.0 895500.0 13.9 -42.0 895500.0 13.9 -42.0 895500.0 13.9 -42.0 895500.0 13.9 -42.0 895500.0 13.9 -42.0 895500.0 13.9 -42.0 895500.0 13.9 -42.0 895500.0 13.9 -42.0 895500.0 13.9 -42.0 895500.0 13.9 -42.0 895500.0 13.9 -42.0 895500.0 13.9 -42.0 895500.0 13.9 -42.0 895500.0 13.9 -42.0 895500.0 13.9 -42.0 895500.0 13.0 -42.0 895500.0 13. | | | | | 31.2 | | ₩-09 | 11.1 | 1.000007 |
| 84500.0 19.5 -45.0 29.8 29.1 29.1 29.1 29.1 29.0 19.1 -44.7 29.1 29.1 29.1 29.1 29.1 29.1 29.1 29.1 | | 6 | | | 30.5 | | 29.7 | 10.7 | 1.000007 |
| 8900000 19.1 -44.7 29.1 28.4 58.0 50.0 18.6 -44.4 28.4 58.0 50.0 18.2 -44.2 58.4 57.1 59.1 59.0 17.4 -43.6 50.0 17.4 -43.6 50.0 17.4 -43.6 50.0 15.9 -42.8 55.2 55.2 55.2 55.0 55.0 15.9 -42.5 55.0 55.0 15.9 -42.5 55.0 55.0 14.9 -41.9 55.0 14.0 -41.9 55.0 14.0 -41.9 55.0 55.0 55.0 14.0 -42.0 55.0 55.0 55.0 55.0 14.0 -42.0 55.0 55.0 55.0 55.0 15.0 -42.0 55.0 55.0 55.0 55.0 55.0 55.0 15.0 -42.0 55.0 55.0 55.0 55.0 55.0 55.0 55.0 5 | | • | | | 29.8 | | 29.0 | 10.2 | 1.000007 |
| 900000 18.6 -44.4 28.4 27.1 3.0 42.0 3.0 3.0 3.0 42.0 3.0 3.0 3.0 42.0 3.0 3.0 3.0 42.0 3.0 3.0 42.0 3.0 3.0 42.0 3.0 3.0 42.0 3.0 3.0 42.0 3.0 3.0 42.0 3.0 3.0 42.0 3.0 3.0 42.0 3.0 3.0 42.0 3.0 3.0 42.0 3.0 3.0 42.0 3.0 3.0 42.0 3.0 3.0 42.0 3.0 3.0 42.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5 | | _ | | | 29.1 | | 56.9 | 10.1 | 1.000006 |
| 9000000 18.2 -44.2 905000 17.8 -43.9 915000 17.8 -43.9 92500 17.0 -43.4 92500 15.0 -43.4 92500 15.0 -42.8 92500 15.0 -42.8 92500 15.0 -42.8 92500 15.0 -42.9 92500 15.0 -42.9 92500 14.0 -41.9 92500 14.0 -41.9 92500 14.0 -41.9 92500 13.0 -42.0 92500 13.0 -42.0 92500 13.0 -42.0 92500 13.0 -42.1 92.0 92500 13.0 -42.1 92.0 92000 13.0 -42.1 92.0 92500 13.0 -42.1 92.0 92500 13.0 -42.1 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0 | | | | | 28.4 | | 54.5 | 10.0 | 1.000006 |
| 90500.0 17.8 -43.9 27.1 26.4 91500.0 17.4 -43.6 25.2 91500.0 17.4 -43.6 25.0 91500.0 17.0 -43.4 25.6 92500.0 16.3 -42.8 25.0 92500.0 15.9 -42.8 24.6 92500.0 15.9 -42.5 92500.0 14.9 -41.9 92500.0 14.6 -41.9 92500.0 14.6 -41.9 92500.0 14.2 -42.0 92500.0 13.9 -42.1 92.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0 | | | | | 27.7 | | 52-1 | 10.0 | 1.000006 |
| 17.0 | | | | | 27.1 | | 54.1 | 8.6 | 1.000006 |
| 17.0 | | | | | 56.4 | | 67.7 | 9.6 | 1.000006 |
| 16.7 -43.1
15.9 -42.8
15.6 -42.3
15.6 -42.3
14.9 -41.9
14.6 -41.9
14.2 -42.1
13.9 -42.1
13.0 -42.1
13.0 -42.1
12.7 -42.1
13.0 -42.3 | | | | | 25.8 | | 80.7 | 10.3 | 1.000006 |
| 16.3 -42.8
15.9 -42.5
15.6 -42.3
15.2 -42.0
14.6 -41.9
14.5 -42.0
13.9 -42.1
13.9 -42.1
13.0 -42.1
13.0 -42.1
12.7 -42.2 | | | | | 25.2 | | 92.0 | 11.2 | 1.000006 |
| 15.9 -42.5
15.6 -42.3
15.6 -42.0
14.9 -41.8
14.0 -41.9
14.2 -42.0
13.9 -42.1
13.9 -42.1
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13.0 -42.1 | | .3 -42.8 | | | 24.6 | | 97.5 | 12.3 | 1.000005 |
| 15.6 -42.3
15.2 -42.0
14.9 -41.8
14.6 -41.9
14.2 -42.0
13.9 -42.1
13.9 -42.1
13.0 -42.1
13.0 -42.2
13.0 -42.2
13.0 -42.2 | 15 | .9 -42.5 | | | 24.1 | | 100.6 | 13.3 | 1.000005 |
| 15.2 -42.0
14.9 -41.8
10 14.6 -41.9
10 14.2 -42.0
13.9 -42.1
13.5 -42.1
13.5 -42.2
13.0 -42.2
13.0 -42.2
13.0 -42.2
13.0 -42.2
13.0 -42.2 | 15 | | | | 23.5 | | 103.3 | 14.3 | 1.000005 |
| 14.9 -41.8
14.6 -41.9
11.2 -42.0
13.9 -42.1
13.5 -42.1
13.5 -42.2
13.0 -42.2
12.7 -42.4
19.2 | | | | | 23.0 | | 105.5 | 15.3 | 1.000005 |
| .0 14.6 -41.9 21.9
.0 14.2 -42.0 21.5
.0 13.9 -42.1 21.0
.0 13.5 -42.2 20.5
.0 13.0 -42.3 19.7 | 14 | | | | 22.4 | | 106.6 | 15.2 | 1.000005 |
| .0 14.2 -42.0 21.5 21.0 13.9 -42.1 20.5 20.5 13.0 -42.2 20.5 13.0 -42.3 19.7 19.2 | 14 | | | | 21.9 | | 107.7 | 15.2 | 1.000005 |
| .0 13.9 -42.1 20.5 .0 13.6 -42.1 20.5 .0 13.0 -42.2 20.1 13.0 -42.3 19.7 .0 12.7 -42.4 19.2 | | | | | 21.5 | | 108.8 | 15.2 | 1.000005 |
| .0 13.6 -42.1 20.5
.0 13.3 -42.2 20.1
.0 13.0 -42.3 19.7
.0 12.7 -42.4 19.2 | | | | | 21.0 | | | 1 | 1.000005 |
| .0 13.0 -42.3 20.1
.0 13.0 -42.3 19.7 | | | | | 20.5 | | | | 1.000005 |
| .0 13.0 -42.3
.0 12.7 -42.4 | | | | | 20.1 | | | | 1.000004 |
| 2.61 12.7 -42.4 | | | | | 19.7 | | | | 1.000004 |
| 1 00 | | 7 -42.4 | | | 19.2 | | | | 1.00000 |
| 12.3 -42.5 | 0. | .5 -42.5 | | | 18.8 | | | | 1.000004 |

MRN SIGNIFICANT LEVEL DATA 1410060132 S M R STATION ALTITUDE 3997.30 FEET MSL 21 MAY 79 0800 HRS MST ASCENSION NO. 132

GEODETIC COORDINATES 32.44034 LAT DEG 106.42307 LON DEG

| TEMPERATURE | AIR
DEG C N | -42.5 | -41.8 | -45.3 |
-52.8 | -52.8 | 552- | 55.5
55.5
8 6 6 6 5
5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 0 0 0 0 4
0 0 0 0 4 | 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 99 -52.8 4.66041
99 -58.9 5.00041
99 -57.9 5.48041
99 -68.0 7.00041
99 -65.0 7.42041 |
|-------------|------------------------|----------|-------|-------|-----------|------------|-------------------------|--|---|--|--|
| | DEW PT DEP
DEG C | | | | | | | | | | 888888 |
| | | | | | | | | | | | 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| DATA | Z Z Z | ***6666- | 2. | -3. | 1: | - 2 | - 66 | - 44- | ဆံလိုလိုဆိုက် | - ผู้ผู้ - ค. ร | - ကိုလို - ကို ခံ ကိ |
| ONIM | SPEED | *** 6666 | .8 | • • | 10. | 10.
3. | 10.
3. | 10.
2. 3. | 10
0 0 0 0 0 | | อู้ ค.ศ.ศ.ค. ค. |
| | DIRECTION
DEG (TN) | ***6666 | 106. | •09 | 98. | 98.
55. | 98.
55.
53. | 98.
55.
53. | 98.
55.
53.
217. | 98.
55.
53.
217.
154. | 98.
55.
217.
154.
137. |
| EOPOTENTIAL | ALTITUDE
DECAMETERS | 2995. | 2461. | 2668. | 2401. | 2401. | 2401.
2120.
2075. | 2401.
2120.
2075.
2014. | 2401.
2120.
2075.
2016.
1931. | 2401.
2120.
2075.
2018.
1931.
1667. | 2401.
2120.
2075.
2018.
1931.
1867. |

** F. DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

| SSURE 6 | PRESSURE GEOPOTENTIAL | A D | TEMPERATURE | REL . HUM. | | AT | |
|---------|-----------------------|-----------|-------------|------------|--------------|-----------|--|
| | FEET | DEGREES (| CENTIGRADE | PERCEN | DEGREES (TN) | TN) KNOTS | |
| 0 | 4895. | 10.9 | 1.4 | 52. | 0.6666 | XX0.6666 | |
| 0 | 6543. | E . 3 | :: | 55. | 0.6666 | XX0.6636 | |
| 750.0 | 8284. | 3.9 | -3.0 | 61. | 318.9 | 4.0 | |
| 0 | 10113. | -: | -6.1 | 63. | 319.7 | 7.3 | |
| 650.0 | 12045. | 8-4- | 4.6- | 70. | 357.2 | 6.3 | |
| 0.009 | 14094. | -9.3 | -14.0 | 68. | 36.4 | 8.5 | |
| 0 | 16285. | -13.6 | -21.1 | 53. | 40.8 | 7.2 | |
| 0 | 18640. | -18.8 | -24.2 | 62. | 43.9 | 9.5 | |
| 0 | 21186. | -24.8 | -31.4 | 54. | 42.3 | 10.4 | |
| • | 23960. | -31.5 | -39.4 | 45. | 21.5 | 17.3 | |
| | 27019. | -37.4 | -48.8 | 29. | 14.1 | 16.9 | |
| • | 30490. | -39.6 | | | 317.3 | 6.2 | |
| 0 | 34545. | -42.9 | | | 340.2 | 19.6 | |
| 0 | 39447. | -46.7 | | | 594.9 | 23.0 | |
| 0 | 42344. | -48.3 | | | 284.6 | 32.2 | |
| 0. | 45640. | -53.4 | | | 292.4 | 29.1 | |
| | 49457. | -57.6 | | | 293.2 | 10.3 | |
| 100.0 | 54039. | -59.7 | | | 252.3 | 50.9 | |
| 80.0 | 58572. | -63.8 | | | 280.1 | 8.8 | |
| 0 | 61246. | -65.0 | | | 156.7 | 11.1 | |
| 0.09 | 64341. | -62.1 | | | 185.3 | 6.7 | |
| • | .06089 | -58.9 | | | 52.7 | 4.7 | |
| • | 72732. | -55.4 | | | 61.6 | 8.2 | |
| 30.0 | 78738. | -52.8 | | | 98.3 | 19.7 | |
| • | 82678. | 4.64- | | | 105.5 | 22.4 | |
| 0. | 87520. | -45.3 | | | 6.65 | 10.8 | |
| 15.0 | 93367. | -41.8 | | | 106.2 | 15.3 | |
| | | | | | | | |

WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES. ×

| Z | - | S | |
|--------|----------|--------------------|--------|
| MRN MA | | | |
| | | | |
| | MSL | - | |
| | FEET | HRS MS | |
| | 3997.30 | 0080 | 2 |
| | ALTITUDE | 1Y 79 0800 HRS MST | NO. 13 |
| | NO | - | de In |

| GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG | E
PRESSURE
MILLIBARS | 1.500+1
2.000+1
2.500+1 | 3.000+1
4.000+1
5.000+1
6.000+1 | 7.000+1
8.000+1
1.000+2
1.550+2
1.500+2 | 2.000.4
2.000.4
2.000.4
4.000.4
4.000.4
2.000.4
3.000.4 | 5.500+2
6.500+2
7.000+2
7.500+2
8.500+2 |
|---|--|-------------------------------|--|---|---|--|
| GEODETIC COO
32.48034
106.42307 | TEMPERATURE
AIR
DEG C | -41.8
-45.3 | -52-
-58-4
-62-1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 145.4
139.6
131.4
121.5 | 0.04
0.04
0.08
0.08
0.08
0.08
0.08
0.08 |
| | DEW PT DEP
DEG C | 666 | 66666 | 555555 | 0 0 0 1 0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | |
| MANDATORY LEVELS
1410060132
S M R | MPS* | 8 5 <u>1</u> | 10770 | 4 4 0 0 4 9 | ลู้ค่องกำรัฐ | -99999 3. * * * * • • • • • • • • • • • • • • • |
| Z | DATA
N-S
MPS | งค์ | ระจำรู้
ค | 4 4 4 4 4 4 | နှံ့ခွံကို စုံစုံခုံ | * * * * 6666
6 6 6 6 6 6 6 6 6 6 6 6 6 6 |
| MSL | WIND DATA SPEED N- | * • • • | 10 + 0 % | 11.55
15.51 | 12.
2. 4. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. | ************************************** |
| TATION ALTITUDE 3997.30 FEET MSL
1 MAY 79 0800 HRS MST
SCENSION NO. 132 | DIRECTION
DEG (TN) | 106. | 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 292.
293.
292. | 295.
340.
14.
21. | 41.
36.
357.
320.
319.
9999.** |
| STATION ALTITUD
21 MAY 79
ASCENSION NO- | GEOPOTENTIAL
ALTITUDE
DECAMETERS | 2861. | 2401.
2217.
2075. | 1785.
1785.
1547.
1391. | 1705.
1053.
1053.
126.
730.
646. | 496.
430.
367.
308.
253.
149. |

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.